

What is Claimed is:

1. A method of applying a reinforcing material to a carton blank, comprising:
 - moving at least one strip of reinforcing material along a processing path;
 - applying a cold set adhesive to the at least one strip of reinforcing material;
 - applying a hot melt adhesive to the at least one strip of reinforcing material;
 - moving a carton material into registration with the at least one strip of reinforcing material; and
 - forming the carton blank from the carton material and strip of reinforcing material.
2. The method of claim 1 and wherein applying a hot melt adhesive comprises placing the hot melt adhesive adjacent at least one side edge of the at least one strip of reinforcing material.
3. The method of claim 2 and further comprising placing a line of hot melt adhesive along each side edge of the at least one strip of reinforcing material.
4. The method of claim 1 and wherein moving the carton material into registration with the at least one strip of reinforcing material comprises feeding a paperboard web into contact with the at least one strip of reinforcing material and urging the paperboard web and reinforcing material together to set the hot melt adhesive for holding the paperboard web and reinforcing material together.

5. The method of claim 4 and wherein urging the paperboard web and reinforcing material together comprises passing the paperboard web and reinforcing material through compression rollers.
6. The method of claim 1 and wherein forming the carton blank comprises die cutting the carton blank from the carton material with the at least one strip of reinforcing material adhered thereto.
7. The method of claim 1 wherein moving the at least one reinforced strip along a processing path comprises feeding a sheet of reinforcing material from a supply and cutting one or more strips of reinforcing material from the sheet of reinforcing material.
8. The method of claim 1 and wherein the carton blank is formed while the carton material and reinforcing material are held together by the hot melt adhesive, after which the cold set adhesive is cured.
9. A method of forming reinforced carton blanks, comprising:
 - moving a reinforcing material and a carton material along a processing path toward engagement with each other;
 - applying a cold set adhesive between the reinforcing material and the carton material;
 - applying a hot melt adhesive between the reinforcing material and the carton material;
 - adhering the reinforcing material and carton material together to form a laminated reinforced carton material sheet; and

forming the carton blanks from the laminated reinforced carton material as it continues along the processing path.

10. The method of claim 9 and wherein applying a hot melt adhesive comprises placing the hot melt adhesive adjacent at least one side edge of the at least one strip of reinforcing material.
11. The method of claim 9 and further comprising forming the reinforcing material into strips and applying the cold set and hot melt adhesives to the reinforcing strips.
12. The method of claim 11 and further comprising placing a line of hot melt adhesive along each side edge of the at least one strip of reinforcing material.
13. The method of claim 11 and wherein adhering the reinforcing material and the carton material comprises feeding a paperboard web into contact with the strips of reinforcing material strips, and urging the paperboard web and reinforcing material strips together to set the hot melt adhesive for holding the paperboard web and reinforcing material as the carton blanks are formed.
14. The method of claim 9 and wherein the carton blank is formed while the carton material and reinforcing material are held together by the hot melt adhesive, after which the cold set adhesive is cured.

15. A system for producing reinforced carton blanks, comprising:
 - a supply of reinforcing material strips fed along a processing path toward engagement with a carton material;
 - a cold set adhesive applicator station positioned along said processing path for applying a cold set adhesive between the reinforcing material strips and carton material;
 - a hot melt adhesive applicator station adjacent said cold set adhesive applicator station for applying a hot melt adhesive between the reinforcing material strips and the carton material;
 - a laminating station downstream from said hot melt adhesive applicator station and adapted to engage and urge the reinforcing material strips and carton material into contact so that the reinforcing material strips and carton material are held together by the hot melt adhesive to form a laminated material; and
 - a cutting station for forming the carton blanks from the laminated material.
16. the system of claim 15 and wherein said laminating station comprises a pair of compression rolls.
17. the system of claim 15 and wherein said cold set adhesive applicator station includes roll type applicators, spray applicators, or extrusion nozzles.
18. The system of claim 15 and wherein said hot melt adhesive applicator station includes roll type applicators, spray applicators, or extrusion nozzles.

19. The system of claim 15 and wherein said cutting station includes a die cutter.
20. The system of claim 15 and further comprising a cutting station positioned downstream from said supply of reinforcing material for cutting the reinforcing material into strips for attaching to the carton material.